LMA District Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)	
† Overall LMA Rating (Fall Only)					
•	** Non-receipt of Summ Reports may effect or				
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not determ d using the same criter			ual maintenance	
FALL INSPECTIONS: The overall maintena within the attached un	•	•	tion and maintenance de ended to be an indiction o		
Comments					

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles
Unit No. 01 Tisdale Bypass	Left	4.51

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/27/2018 - 3/27/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start		Rating **	Α	Issue No.		2	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitude	e/Longitude	
Calegory				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals				0		0
DWR ID	DWR_ST0	009_01_s _ 201	3_2				
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			
Sutter Yard	d has the (D&M manuals					

No Photos

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ma	Location *		N/A	
Category Earthen Levee		GPS La	atitud	e/Longitude			
Calegory				Start		End	
Item Emergency Supplies &				0		0	
item	Equipmer	nt			0		0
DWR ID	DWR_ST0	009_01_s _ 201	3_4				
		Comn	nent Cod	de			

Inspector Comment Sutter Yard has a stockpile of emergency supplies and equipment. No Photos

LM Start		Rating **	Α	Issue No.		5	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Flood Pre	paredness &	Training		٥		0
item					٥		0
DWR ID DWR_ST0009_01_s _ 2013_5							
		Comn	nent Cod	le			

No Photos

Inspector Comment Sutter Yard had flood fight training October 2016.

* Location LS : Land Side N/A : Not Applicable WS: Water Side CR : Crown

Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Page 1 of 11

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.08	Rating **	Α	Issue No.		10
LM End	1.08	Issue Type +	Ма	Location *		LS
Category Earthen Levee				GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Vegetatio	n		39.0283	07°	39.028307°
пеш				-121.8019	60°	-121.801960 °
DWR ID DWR_ST0009_01_s _ 2018_10						

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Lma should continue to manage the native grasses on both slopes.

Photo 1 of 1: SP_2018_ST0009_286_10_20180403_00020.jpg



View of native grasses on both slopes.

LM Start	2.14	Rating **	A/W	Issue No.		25
LM End	2.14	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS La	tituc	le/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	onsibility	39.02813	32°	39.028132 °
item				-121.78238	9°	-121.782389°
DWR ID						

Comment Code

Inspector Comment

FS_ID:51484 DS ID:16591 EP_NO: 10099

Repair Type: No Action Needed

Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good conditon.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to

report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013

Same as last inspection.

FIELD_STRUCT_DESC: 1 of 2: 4-foot by 7-foot reinforced concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (two 4-foot by 7-foot tunnel [HLM 2.13] authorized under Automatic Board Order (ABO) issued as Permit No. 10099, 1955 -Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)]

FS Date: 4/12/2017 9:20:05 AM

Photo 1 of 3: UCIP_SP_2018_51484_64226.jpg



Slide gates on WS shoulder.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.		25 (cont)
LM End	2.14	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	nsibility	39.02813	2°	39.028132°
пеш				-121.78238	9°	-121.782389°
DWR ID						

Comment Code

Inspector Comment

FS_ID:51484 DS_ID:16591 EP_NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

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FS Date: 4/12/2017 9:20:05 AM

LM Start	2.14	Rating **	A/W	Issue No.	25 (cont)
LM End	2.14	Issue Type +	Ma	Location *	



Wooden Flap gates on WS toe.

Photo 3 of 3: UCIP_SP_2018_51484_64224.jpg



Pump house on LS toe.

Location Rating Issue Type LS : Land Side Ma : Maintenance Deficiency N/A: Not Applicable N: Not Inspected/Rated A : Acceptable Minimally Acceptable Ob: Design & System Obsolescence WS: Water Side C: Corrected CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.	26		
LM End	2.14	Issue Type +	Ma	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory	У			Start		End	
Item	DWR UC	IP LMA Respo	onsibility	39.02812	4 °	39.028124°	
пеш				-121.78234	4 °	-121.782344 °	
DWR ID							

Comment Code

Inspector Comment

FS_ID:51485 DS_ID:16856 EP_NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.111/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD_STRUCT_DESC: 2 of 2: 4-foot by 7-foot concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (two 4-foot by 7-foot tunnel [HLM 2.13] authorized under Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)]. FS Date: 4/12/2017 9:20:37 AM

LM Start	2.14	Rating **	A/W	Issue No.	26 (cont)
LM End	2.14	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51485_64230.jpg



Slide gates on WS shoulder.

Photo 2 of 3: UCIP_SP_2018_51485_64229.jpg



Wooden flap gates on WS toe.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.	26 (cont)	
LM End	2.14	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory	negory					End
Item	DWR UC	IP LMA Respo	nsibility	39.02812	4 °	39.028124 °
пеш	item			-121.78234	4 °	-121.782344 °
DWR ID						

Comment Code

Inspector Comment

FS_ID:51485 DS_ID:16856 EP_NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD_STRUCT_DESC: 2 of 2: 4-foot by 7-foot concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (two 4-foot by 7-foot tunnel [HLM 2.13] authorized under Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)]. FS Date: 4/12/2017 9:20:37 AM

Photo 3 of 3: UCIP_SP_2018_51485_64228.jpg



Pump house on LS toe.

LM Start	2.16	Rating **	U	Issue No.		12	
LM End	2.16	Issue Type +	Ма	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Category	Calegory					End	
Item	Animal Co	ontrol		39.0281	37°	39.028137 °	
item			-121.7820	20°	-121.782020 °		
DWR ID	DWR_ST0	009_01_f _ 2016	6_12				

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 2: SP_2018_ST0009_286_12_20180305_00003.jpg



View of a rodent hole along the levee crown.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	2.16	Rating **	U	Issue No.		12 (cont)	
LM End	2.16	Issue Type +	Ма	Location *	LS		
Category	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item	Animal Control			39.0281	37°	39.028137°	
пеш				-121.782020 °		-121.782020 °	
DWR ID DWR_ST0009_01_f _ 2016_12							
		Comn	nent Coo	le			
A3 : No rocompact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and	
Inspector Comment							



Another view of the rodent holes along the crown and landside slope.

					1			
LM Start	2.19	Rating **	М	Issue No.		3		
LM End	4.11	Issue Type +	En	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Encroach	ments		39.0281	73 °	39.028012°		
item			-121.781475 °		-121.745665 °			
DWR ID DWR_ST0009_01_s _ 2012_3								
		Comn	nent Cod	le				
PO : Pole								
	Inspector Comment							



View of the PG&E poles along the landside crown of the levee.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	3.65	Rating **	М	Issue No.		27
LM End	3.65	Issue Type +	En	Location *		
Category	Suppleme	ental		GPS Latitude/Longitude		
Calegory				Start	Start	
Item	DWR UC	IP Field Study		39.02791	1°	39.027911°
пеш		•		-121.75422	4 °	-121.754224°
DWR ID						

Comment Code

Inspector Comment

FS_ID:51486 DS_ID:16590 EP_NO: 14740

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 Carsonite marker on WS missing. (DWR Sutter Yard- AFreitag)10/11/2016 Carsontie marker on WS shoulder is still missing. (DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on WS shoulder is missing.5/7/2015 Marker on WS shoulder missing.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.5/20/2013 Carsonite marker on WS shoulder missing and should be replaced. FIELD_STRUCT_DESC: 4-inch steel gas pipeline through the levee and under channel, 2.5 feet below the crown. Carsonite signs on both the landside (LS) and the waterside (WS) shoulders. Gas wells 200 feet off of the LS toe. (Permit No. 14740, 1988 - Nahama and Weagant Energy Co.) [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 4/12/2017 9:21:13 AM

LM Start	3.65	Rating **	М	Issue No.	27 (cont)
LM End	3.65	Issue Type +	En	Location *	

Photo 1 of 2: UCIP_SP_2018_51486_76941.jpg



Close up of LS marker

Photo 2 of 2: UCIP_SP_2018_51486_64220.jpg



Carsonite sign on LS shoulder with view of gas well in background.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	4.35	Rating **	М	Issue No.		24				
LM End	4.35	Issue Type +	En	Location *	WS					
Category	Earthen L	evee		GPS La	atitud	le/Longitude				
Calegory				Start		End				
Item	Encroach	Encroachments			37°	39.030637°				
пеш				-121.7430	23 °	-121.743023°				
DWR ID	DWR_ST0	009_01_s _ 201	7_24							
		Comn	nent Cod	le						
DE : Debri	s									
Inspector Comment										
Remove the debris from the waterside slope and toe.										



View of the debris along the waterside slope and toe.

LM Start	4.50	Rating **	М	Issue No.		28		
LM End	4.50	Issue Type +	En	Location *				
Category Supplemental				GPS Latitude/Longitude				
Calegory				Start		End		
Itom	DWR UC	IP Field Study		39.0328	01°	39.032801 °		
item	Item		-121.7433	60°	-121.743360 °			
DWR ID						·		

Inspector Comment

Comment Code

FS_ID:51487 DS_ID:16855 EP_NO: 14455

last inspection.

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 LS carsonite marker is still broken.(DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on LS slope is broke off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.5/20/2013 Same as

FIELD_STRUCT_DESC: 1 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign on the landside (LS) slope. Drawings are available. (Permit No. 14455, 1986 - Depco Inc.). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 4/12/2017 9:22:54 AM

Photo 1 of 3: UCIP_SP_2018_51487_64235.jpg



Carsonite sign on LS slope.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	4.50	Rating **	М	Issue No.		28 (cont)	
LM End	4.50	Issue Type +	En	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.03280	1°	39.032801°	
пеш		ŕ		-121.743360	°	-121.743360 °	
DWR ID							

Comment Code

Inspector Comment

FS_ID:51487 DS_ID:16855 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 LS carsonite marker is still broken.(DWR Sutter Yard -

afreitag)4/18/2016 Carsonite marker on LS slope is broke off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD_STRUCT_DESC: 1 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign on the landside (LS) slope. Drawings are available. (Permit No. 14455, 1986 - Depco Inc.). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 4/12/2017 9:22:54 AM



Photo 2 of 3: UCIP_SP_2018_51487_64234.jpg



Carsonite sign on LS slope.

Photo 3 of 3: UCIP_SP_2018_51487_76942.jpg



Close up of LS marker

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	4.50	Rating **	М	Issue No.		29
LM End	4.50	Issue Type +	En	Location *		
Category	Suppleme	ental		GPS Latitude/Longitud		le/Longitude
Calegory				Start		End
Item	DWR UC	IP Field Study		39.03280	01 °	39.032801 °
пеш				-121.74336	60°	-121.743360 °
DWR ID						

Inspector Comment

Comment Code

FS_ID:51488 DS_ID:16589 EP_NO: 14455

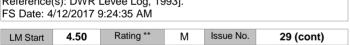
Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 Carsonite marker on the LS is still broken.(DWR Sutter Yard afreitag)4/18/2016 Carsonite marker on LS slope is broken off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD_STRUCT_DESC: 2 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign located on the landside (LS) slope. (Permit No. 14455, 1986 - Depco Inc.). [Additional Reference(s): DWR Levee Log, 1993].

4.50

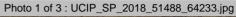
LM End



En

Location *

Issue Type +





Carsonite sign on LS slope.

Photo 2 of 3: UCIP_SP_2018_51488_64232.jpg



Carsonite sign on LS slope.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	03/27/2018 03/27/2018	Bob Duffey

LM Start	4.50	Rating **	М	Issue No.		29 (cont)
LM End	4.50	Issue Type +	En	Location *		
Category	Suppleme	ental		GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UC	IP Field Study		39.03280	1°	39.032801°
Item				-121.743360	°	-121.743360°
DWR ID						

Comment Code

Inspector Comment

FS_ID:51488 DS_ID:16589 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 Carsonite marker on the LS is still broken.(DWR Sutter Yard-afreitag)4/18/2016 Carsonite marker on LS slope is broken off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD_STRUCT_DESC: 2 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign located on the landside (LS) slope. (Permit No. 14455, 1986 - Depco Inc.). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 4/12/2017 9:24:35 AM

Photo 3 of 3: UCIP_SP_2018_51488_76943.jpg



Close up of LS marker

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency
Oh : Design & System Obsole

Ob : Design & System Obsolescence En : Enforcement

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles
Unit No. 02 Tisdale Bypass	Right	4.43

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/27/2018 - 3/27/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

Summer & Winter Inspections

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- b) any changes other than the results of normal maintenance
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If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/27/2018 03/27/2018	Bob Duffey

LM Start	0.11	Rating **	M	Issue No.		1	
LM End	0.26	Issue Type +	En	Location *	LS		
Earthen Levee			GPS La	atitud	e/Longitude		
Category				Start		End	
Item	Encroachments			39.0237	60°	39.024559 °	
пеш	item				75 °	-121.816344°	
DWR ID DWR_ST0009_02_s _ 2012_1							
		Comn	nent Cod	le			
DT : Ditch							
		Inspecto	or Comm	nent			
Monitor the ditch for erosion.							



View of the agricultural ditch along the landside toe.

LM Start	0.69	Rating **	М	Issue No.		9
LM End	0.71	Issue Type +	Ma	Location *		LS
Category	Earthen Levee					e/Longitude
Calegory			Start		End	
Item	Erosion /	Bank Caving		39.0256	02 °	39.025657°
пеш					27 °	-121.808027 °
DWR ID	DWR_ST0	009_02_s _ 201	7_9			

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Repair the erosion along the landside toe.

Photo 1 of 1: SP_2018_ST0009_287_9_20180305_00005.jpg



View of the erosion along the landside toe from the County Road.

LM Start	0.97	Rating **	М	Issue No.		10	
LM End	0.98	Issue Type +	Ма	Location *		LS	
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Erosion /	Bank Caving		39.02554	40°	39.025572°	
пеш				-121.8032	72 °	-121.802990 °	
DWR ID DWR_ST0009_02_s _ 2017_10							
Comment Code							

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Repair the erosion along the landside toe.

Photo 1 of 1: SP_2018_ST0009_287_10_20180305_00006.jpg



View of the erosion along the landside toe from the County Road.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.14	Rating **	U	Issue No.		291
LM End	1.14	Issue Type +	En	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory		Start		End		
Item	DWR UC	IP Field Study		39.02550	3°	39.025503°
пеш			-121.80005	3°	-121.800053 °	
DWR ID						·

Comment Code

Inspector Comment

FS_ID:51489 DS_ID:16594 EP_NO: 267 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Erosion appears to be getting worse at the WS vault. It is starting to erode away the WS toe road. (DWR Sutter Yard- AFreitag)10/11/2016 Erosion still present behind the WS vault.(DWR Sutter Yard - afreitag)4/18/2016 Erosion happening around the WS concrete vault.5/7/2015 Burrowing near WS toe stil present.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.10/17/2012 Burrowing along downstream side of concrete vault on WS Toe. May need to be grouted. FIELD_STRUCT_DESC: 54-inch reinforced concrete irrigation pipe through the levee, 29.5 feet below the crown. Slide gates on both the waterside (WS) and the landside (LS) ends. WS end gate in 5-foot by 6-foot concrete box. LS end gate in concrete ""U"" shaped headwall. Concrete encased steel siphon pipe under and across bypass. (Permit Nos. 267 and 290 - Sutter Basin Improvement Co. [dates unknown]). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, August 1955 (Station 61+25)]. FS Date: 4/12/2017 9:26:22 AM

LM Start	1.14	Rating **	U	Issue No.	291 (cont)
LM End	1.14	Issue Type +	En	Location *	

Photo 1 of 3: UCIP_SP_2018_51489_64675.jpg

Slide gate at concrete outlet on LS toe.

Photo 2 of 3: UCIP_SP_2018_51489_64674.jpg



Slide gate at concrete outlet on LS toe.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.14	Rating **	U	Issue No.		291 (cont)
LM End	1.14	Issue Type +	En	Location *		
Category	Suppleme		GPS Lat	itud	e/Longitude	
Calegory				Start		End
Item	DWR UC	IP Field Study		39.02550	3°	39.025503
пеш			-121.80005	3°	-121.800053	
DWR ID						

Comment Code

Inspector Comment

FS_ID:51489 DS_ID:16594 EP_NO: 267 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Erosion appears to be getting worse at the WS vault. It is starting to erode away the WS toe road. (DWR Sutter Yard- AFreitag)10/11/2016 Erosion still present behind the WS vault.(DWR Sutter Yard - afreitag)4/18/2016 Erosion happening around the WS concrete vault.5/7/2015 Burrowing near WS toe stil present.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.10/17/2012 Burrowing along downstream side of concrete vault on WS Toe. May need to be grouted. FIELD_STRUCT_DESC: 54-inch reinforced concrete irrigation pipe through the levee, 29.5 feet below the crown. Slide gates on both the waterside (WS) and the landside (LS) ends. WS end gate in 5-foot by 6-foot concrete box. LS end gate in concrete ""U"" shaped headwall. Concrete encased steel siphon pipe under and across bypass. (Permit Nos. 267 and 290 - Sutter Basin Improvement Co. [dates unknown]). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, August 1955 (Station 61+25)]. FS Date: 4/12/2017 9:26:22 AM



Concrete box, vent, and 54-inch steel pipe in WS toe.

LM Start	1.14	Rating **	М	Issue No.		13	
LM End	1.14	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End	
Item	Erosion /	Erosion / Bank Caving			° 08	39.025460 °	
nem				-121.80002	22°	-121.800022 °	
DWR ID	DWR STO	009 02 f 2016	3 13				

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Erosion around the WS concrete vault.

Photo 1 of 2: SP_2018_ST0009_287_13_20180305_00007.jpg



View of the erosion along the concrete vault.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.14	Rating **	М	Issue No.		13 (cont)	
LM End	1.14	Issue Type +	Ma	Location *		WS	
Category Earthen Levee			GPS Latitude/Longitude				
Category			Start		End		
Item	Erosion / Bank Caving			39.025460°		39.025460 °	
Item				-121.8000	22 °	-121.800022 °	
DWR ID	DWR_ST0	009_02_f _ 2016	6_13				
Comment Code							
E2 : Schedule repair of erosion site prior to the next inspection.							

Inspector Comment Erosion around the WS concrete vault.



Another view of the erosion along the concrete vault.

LM Start	1.19	Rating **	A/W	Issue No.		290
LM End	1.19	Issue Type +	Ma	Location *		WS
Catagony	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Erosion /	Bank Caving		39.0254	90°	39.025490°
пеш				-121.799240 °		-121.799240 °
DWR ID	DWR_ST0	009_02_s _ 201	5_290			

Comment Code

E1: Note and monitor erosion site.

Inspector Comment

Sutter Yard needs to monitor the erosion along the berm.



View of the erosion along the waterside berm.

LM Start	1.29	Rating **	A/W	Issue No.		4
LM End	1.29	Issue Type +	Ma	Location *		WS
Category	Category Earthen Levee			GPS Latitude/Longitude		
Calegory				Start		End
Item	Erosion /	Erosion / Bank Caving			78°	39.025478°
пеш				-121.7972	32 °	-121.797232 °
DWR ID	DWR_ST0	009_02_s _ 201	3_4			

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Sutter Yard needs to monitor the erosion.



View of the erosion along the waterside berm.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.35	Rating **	М	Issue No.		7	
LM End	1.35	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetation			39.0254	45°	39.025445 °	
пеш		-121.796092 °		-121.796092 °			
DWR ID DWR_ST0009_02_s _ 2018_7							
		Comn	nent Coo	le			
V1 : Contro	ol annual g	rass and wee	ds on th	e levee slo	pes a	and	
easements	S.						
		Inspecto	or Comm	nent			
Removed the native grasses on both slopes.							



View of native grasses on both slopes.

LM Start	1.48	Rating **	A/W	Issue No.	5		
LM End	1.50	Issue Type +	Ma	Location *	WS		
Cotogon Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Itom	Item Erosion / Bank Caving			39.0254	60°	39.025446°	
пеш				-121.793815 °		-121.793347 °	
DWR ID	DWR_ST0	009_02_s _ 201	3_5				
		Comn	nent Cod	le			
E2 : Schedule repair of erosion site prior to the next inspection.							

Inspector Comment

Sutter Yard needs to monitor the erosion.



View of the erosion along the waterside berm.

LM Start	3.93	Rating **	A/W	Issue No.		2		
LM End	3.93	Issue Type +	Ma	Location *		ws		
	evee	GPS La	atitud	le/Longitude				
Category				Start		End		
Item	Erosion / Bank Caving			39.0250	60°	39.025060 °		
пеш			-121.748178 °		-121.748178°			
DWR ID	DWR ID DWR_ST0009_02_f _ 2016_2							
		Comn	nent Cod	le				
E1 : Note a	and monito	or erosion site						
Inspector Comment								



View of the erosion along the waterside berm.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/27/2018 03/27/2018	Bob Duffey

LM Start	4.09	Rating **	A/W	Issue No.		18	
LM End	4.09	Issue Type +	Ма	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Erosion / Bank Caving			39.024912°		39.024912 °	
item				-121.745237 °		-121.745237 °	
DWR ID DWR_ST0009_02_f _ 2017_18							
Comment Code							
F2 · Schedule repair of erosion site prior to the next inspection							

Inspector Comment Repair the erosion along the water side berm.



View of the erosion along the waterside berm.

LM Start	4.20	Rating **	М	Issue No.		292	
LM End	4.20	Issue Type +	En	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCIP Field Study			39.0240	79°	39.024079°	
iteiii				-121.743420 °		-121.743420°	
DWR ID							

Comment Code

Inspector Comment

FS_ID:51491 DS_ID:23099 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition but there is no permit on file. Photos of the markers were uploaded on 5/20/2013. (DWR Sutter Yard - afreitag)5/3/2016 Need photos of markers on both WS and LS. 4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Need to identify permit for crossing.

FIELD_STRUCT_DESC: Steel natural gas pipeline of an unknown size through the levee, at an unknown depth. Markers visible on the landside (LS) shoulder and toe and the waterside (WS) shoulder and toe. No permit has been identified since the crossing was field discovered in 2012.

FS Date: 4/12/2017 9:30:05 AM

Photo 1 of 3: UCIP_SP_2018_51491_64681.jpg



Marker on LS shoulder and toe

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/27/2018 03/27/2018	Bob Duffey

LM Start	4.20	Rating **	М	Issue No.	292 (cont)	
LM End	4.20	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
ltom	ltem DWR UCIP Field Study			39.02407	9°	39.024079°
пеш				-121.74342	o °	-121.743420°
DWR ID						

Comment Code

Inspector Comment

FS_ID:51491 DS_ID:23099 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition but there is no permit on file. Photos of the markers were uploaded on 5/20/2013. (DWR Sutter Yard - afreitag)5/3/2016 Need photos of markers on both WS and LS. 4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Need to identify permit for crossing.

FIELD_STRUCT_DESC: Steel natural gas pipeline of an unknown size through the levee, at an unknown depth. Markers visible on the landside (LS) shoulder and toe and the waterside (WS) shoulder and toe. No permit has been identified since the crossing was field discovered in 2012.

FS Date: 4/12/2017 9:30:05 AM

LM Start	4.20	Rating **	М	Issue No.	292 (cont)
LM End	4.20	Issue Type +	En	Location *	



Marker on WS shoulder

Photo 3 of 3: UCIP_SP_2018_51491_64679.jpg



Marker on WS toe